PCT Rec'd PCT/PTO 200 PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

10/535712

	<u>.</u>				n company	
Applicant's or agent's file reference 232094			FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No.			International filing date (da	ay/month/year)	Priority date (day/month/year)	
PCT/ZA 03	3/001	34	12.09.2003		12.09.2002	
		t Classification (IPC) or bo	oth national classification an	d IPC		
F01D1/34						
Applicant						
SMITH, V	icus \	Villiam				
1. This	interna	ational preliminary exar	mination report has been	prepared by this	International Preliminary Examining	
Autho	ority a	nd is transmitted to the	applicant according to A	inicie 36.		
2. This	REPC	RT consists of a total of	of 5 sheets, including thi	s cover sheet.		
53			mind by ANNIEVER in a	hoote of the desi	cription, claims and/or drawings which have	
	heen	amended and are the	basis for this report and/	or sheets contain	ling rectifications made before this Authority	
	(see	Rule 70.16 and Section	n 607 of the Administrativ	e instructions ur	nder the PC1).	
Thes	e ann	exes consist of a total of	of 2 sheets.			
2 This	ropor	contains indications re	elating to the following ite	ems:		
3. This			naming to the renorming the		_	
	⊠	Basis of the opinion				
		Priority	oninion with regard to pr	welty inventives	step and industrial applicability	
III IV		Lack of unity of invent		overty, inventive .	stop and maderial approachies	
V	⊠			th regard to nove	lty, inventive step or industrial applicability;	
		citations and explanal	tions supporting such sta	tement		
VI		Certain documents cit			·	
VII			international application			
VIII		Certain observations	on the international appli	cation		
Date of submission of the demand				Date of completion	on or this report	
08.04.2004				23.12.2004		
08.04.2004				20.12.2004		
1 Name and making address of the international			nal	Authorized Office		
preliminary		ning authority: ropean Patent Office	!			
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d			656 epmu d	Nordstroem, I	Strange of the straight of the	
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/ZA 03/00134

I. Basis	of the	report
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1	With regard to the elements of the international application (Replacement sheets which have been furnished to
	the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed"
	and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages	
	1-6		as originally filed
	Clai	ms, Numbers	
	Clai	ms, numbers	
	1-5,	20	as originally filed
	6-19)	received on 05.10.2004 with letter of 27.09.2004
	Dra	wings, Sheets	
	1/5-	5/5	as originally filed
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in language in which the international application was filed, unless otherwise indicated under this item.		
	The	se elements were ava	ailable or furnished to this Authority in the following language: , which is:
		the language of a tra	nslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of publi	cation of the international application (under Rule 48.3(b)).
		the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 3).
3.	With inte	n regard to any nucle rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inter	rnational application in written form.
		filed together with the	e international application in computer readable form.
		furnished subsequer	ntly to this Authority in written form.
	furnished subsequently to this Authority in computer readable form.		
		The statement that the in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.
4.	The	e amendments have r	esulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:

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5.		This report has been established been considered to go beyond	ed as if the dis	f (some of) th sclosure as fi	e amendments had not been made, since they have led (Rule 70.2(c)).		
		(Any replacement sheet contain report.)	ning sı	uch amendm	ents must be referred to under item 1 and annexed to this .		
6.	Add	litional observations, if necessar	у:				
III.	Nor	n-establishment of opinion wit	th rega	ard to novel	ty, inventive step and industrial applicability		
 The questions whether the claimed invention appears to be novel, to involve an inventive step obvious), or to be industrially applicable have not been examined in respect of: 					to be novel, to involve an inventive step (to be non- examined in respect of:		
		the entire international applicat	ion,				
	\boxtimes	claims Nos. 15-20					
because: the said international application, or the said claims Nos. relate to the following subject matter not require an international preliminary examination (specify):							
				s Nos. relate to the following subject matter which does on (specify):			
	×	the description, claims or drawings (indicate particular elements below) or said claims Nos. 15-20 are so unclear that no meaningful opinion could be formed (specify):					
		see separate sheet					
		the claims, or said claims Nos. could be formed.	are so	o inadequate	ly supported by the description that no meaningful opinion		
		no international search report I	has be	en establishe	ed for the said claims Nos.		
2. A meaningful international preliminary examination cannot be carried out due to the failure of the nucleoti or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:			nnot be carried out due to the failure of the nucleotide and/ dard provided for in Annex C of the Administrative				
		the written form has not been t	furnish	ed or does n	ot comply with the Standard.		
		the computer readable form ha	as not	been furnish	ed or does not comply with the Standard.		
۷.	V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Sta	Statement					
	No	velty (N)	Yes: No:	Claims Claims	1-14		
	Inv	entive step (IS)	Yes: No:	Claims Claims	1-14		
	Ind	ustrial applicability (IA)	Yes: No:	Claims Claims	1-14		

2. Citations and explanations

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see separate sheet

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

Re Section III

Claims 15-20 contain references to the description and/or drawings. According to rule 6.2(a) PCT, claims should not contain such references except where absolutely necessary, which is not the case here.

Re Section V

The invention concerns a rotary engine having an impeller with outer chambers open to the periphery of the impeller and being circumferentially spaced around the impeller, and into which chambers jets of working fluid flow can be directed from inlet openings in the periphery of the casing surrounding the impeller.

A rotary engine of this kind is disclosed in the prior art document US-A-3 737 248.

None of the prior art documents cited in the international search report discloses an impeller having further chambers located radially inwards of the peripherally located chambers, corresponding inner and outer chambers being connected by means of a passage which can take the form of a venturi, through which passage the working fluid is communicatable.

Neither the fluid flow actuated drive means according to claim 1, nor the method of rotating a body according to independent claim 13 can be considered obvious in the light of the disclosures of the cited documents, whether taken alone or in combination.

The dependent claims 2-12 and 14 respectively define further advantageous embodiments which are all novel and supported by an inventive step.